



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

64137-12

Date of Issuance:

7/18/2016

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Rotstop C Biofungicide WP

Name and Address of Registrant (include ZIP Code):

Danstar Ferment AG  
Poststrasse 30  
CH-6300 Zug, Switzerland

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
2. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 64137-12."

Signature of Approving Official:

Kimberly Nesci, Chief, Microbial Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Date:

7/18/2016

3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 07/06/2016

If you have any questions, please contact Jennifer Wingart of my branch by phone at (703) 347-0100 or via email at [wingart.jennifer@epa.gov](mailto:wingart.jennifer@epa.gov).

Sincerely,



Kimberly Nesci, Chief  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure: Stamped Label

# Rotstop®C Biofungicide WP

For control of root and butt rot (species of the *Heterobasidion annosum* complex including *H. irregulare*) on conifers by treatment of freshly cut stumps

**Active Ingredient:**

*Phlebiopsis gigantea* strain VRA 1992\* ..... 10.0%

**Other Ingredients**..... 90.0%

Total ..... 100.0%

\* Contains >3 X 10<sup>6</sup> cfu/g

## KEEP OUT OF REACH OF CHILDREN CAUTION

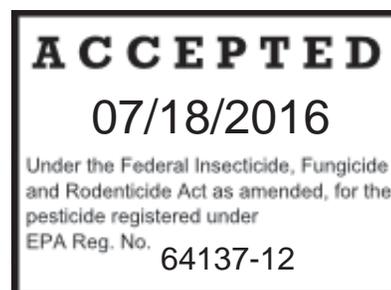
READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

FIRST AID
<b>If swallowed:</b> <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
<b>If on skin:</b> <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled:</b> <ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If in eyes:</b> <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>EMERGENCY INFORMATION</b> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on (product, use, etc.), call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the Poison Control Center 1-800-222-1222.</p>

NET CONTENTS: 0.13 oz, 0.27 oz or 0.67 oz  
EPA Reg. No. 64137 – RE

Batch No.:  
EPA Est. No. 91225-EST-001

Manufactured by:  
Danstar Ferment AG  
Poststrasse 30  
Zug CH-6300  
Switzerland



## **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Caution: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Wear protective eyewear such as goggles, face shield, or safety glasses. Harmful if inhaled. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof or chemical-resistant gloves
- Protective eyewear such as goggles, face shield, or safety glasses
- Mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions are available, wash with detergent and hot water. Keep and store PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

### **ENVIRONMENTAL HAZARDS**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

#### **USER SAFETY RECOMMENDATIONS**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if contaminated with pesticide. Wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.** Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during product application. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS). Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof or chemical-resistant gloves
- Protective eyewear such as goggles, face shield, or safety glasses
- Mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow manufacturer's directions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. For other uses, including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

## General Information

Rotstop C is a wettable powder formulation for the control of root and butt rot (species of the *Heterobasidion annosum* complex including *H. irregulare*) on conifers by treatment of freshly cut stumps.

## Treatment Solution Preparation

Tear off one corner of the package and pour approximately 1/2 cup cold or cool water into the bag to prepare an even slurry. Add the slurry to water in the sprayer, rinse the package and add rinsate water to the treatment solution to produce a final concentration of 0.13 oz/gallon. For specific dilution and spray coverage instructions, see tables below. *[A dye can be added to the treatment mixture to aid in monitoring application coverage.]*

## Treatment Solution Application

To control root and butt rot on conifer stumps: apply the treatment solution on the freshly cut stump surface immediately or within 3 hours after harvesting using a backpack sprayer or hand sprayer, or apply during tree cutting by spraying with a device mounted on the harvester. Spray the whole stump top surface to the point of wetness. See the tables for treatment rate and spray coverage areas.

## Application Timing

Treat freshly cut stumps of conifers with Rotstop C throughout the entire rotation, from first thinning to final harvest. Treat stumps whenever there is a risk for infection by *Heterobasidion* spores.

## Application of Rotstop C in Cold Weather

Addition of up to 10% (i.e. 13 fluid oz/gallon) propylene glycol (not ethylene glycol) to the Rotstop C mixture will prevent the mixture from freezing to about 27° F, thus allowing stump treatment on days when temperatures are below freezing.

<b>Manual Application with Backpack or Hand-Held Sprayer</b>				
<b>Package Size</b>	<b>Final Spray Water Dilution</b>	<b>Spray Treatment Coverage (sq ft of stump top)</b>	<b>Area Equivalent # of Stumps</b>	<b>Average dbh*</b>
0.13 oz	1 gallon	40 sq. ft	145 100 65 35	6-inch 8-inch 10-inch 12-inch
0.27 oz	2 gallons	80 sq. ft	290 200 130 70	6-inch 8-inch 10-inch 12-inch
0.67 oz	5 gallons	200 sq. ft	725 500 325 175	6-inch 8-inch 10-inch 12-inch

\* dbh = diameter at breast height (4.5 ft or 54 inches)

<b>Mechanized Applications</b>				
<b>Package Size</b>	<b>Final Spray Water Dilution</b>	<b>Spray Treatment Coverage* (sq ft of stump top)</b>	<b>Area Equivalent # of Stumps*</b>	<b>Average dbh**</b>
0.13 oz	1 gallon	20-40 sq. ft	75-145 50-100 33-65 18-35	6-inch 8-inch 10-inch 12-inch
0.27 oz	2 gallons	40-80 sq. ft	145-290 100-200 65-130 35-70	6-inch 8-inch 10-inch 12-inch
0.67 oz	5 gallons	100-200 sq. ft	375-725 250-500 165-325 90-175	6-inch 8-inch 10-inch 12-inch

\* depending on accuracy of application and amount of overspray

\*\* dbh = diameter at breast height (4.5 ft or 54 inches)

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Rotstop C contains living fungal spores. Store unopened packages up to 12 months in a cool (below 46°F), dry place and up to 18 months when frozen (0°F). Use a package taken from cool conditions and kept at room temperature within one month. Do not expose product to temperatures above 104°F. Use an opened package and the treatment solution within 24 hours.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Non-refillable container. Completely empty package into application equipment, then dispose of empty package in a sanitary landfill; or by incineration if allowed by state and local authorities; if burned, stay out of smoke.

### **NOTICE TO USER**

Danstar Ferment AG warrants only that this product conforms to the product description on this label and is reasonably fit for the purposes set forth in the Directions for Use when used in accordance with them. However, ineffectiveness or other unintended consequences may result because of such factors as the use, storage or handling of the product contrary to the label instructions, all of which are beyond the control of Danstar Ferment AG. To the extent permitted by applicable law, Danstar Ferment AG shall not be liable for indirect or consequential damages resulting from the use, storage or

handling of this product. DANSTAR FERMENT AG MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.